
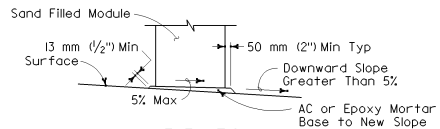
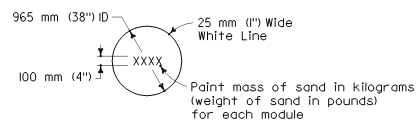


DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
					
July 1, 2002 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness or electronic copies of this plan sheet.					
Caltrans now has a web site! To get to the web site, go to: <a href="http://www.dot.ca.gov">http://www.dot.ca.gov</a>					



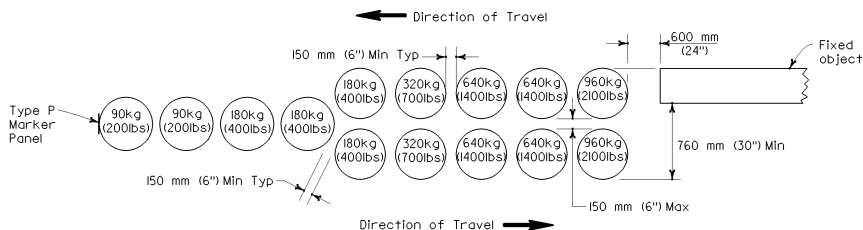
**ELEVATION**  
**SLOPED SEAT DETAIL**  
(See Note 5)



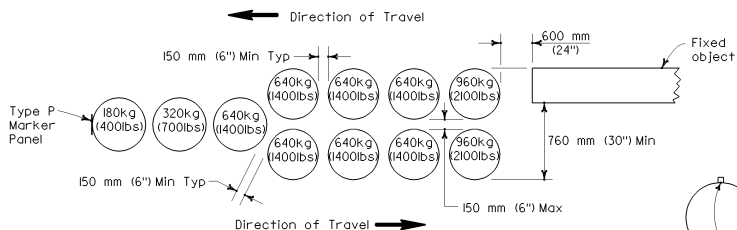
**PAINTING DETAIL**  
(See Note 6)

#### NOTES

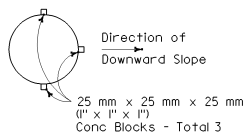
1. (XXXX) Indicates module location and mass of sand in kilograms (weight of sand in pounds) for each module. Module spacing is based on the greater diameter of the module.
2. All sand masses (weights) are nominal.
3. Each module is to contain amount of sand indicated, supported according to the manufacturer's instructions.
4. Bidirectional crash cushion arrays may be angled toward approaching traffic. Amount of angle not to exceed 10 degrees.
5. Modules shall be placed on asphalt concrete, epoxy mortar or concrete surface. Modules to be placed on surfacing with greater than 5% downward slope shall be seated as shown.
6. Mass of sand and outline of each module shall be painted on the surface at each module location.
7. Module blocking, epoxied to the deck surface, is required for all modules placed on bridge decks. Two acceptable alternatives are shown. Other alternatives recommended by the manufacturer and approved by the Engineer will be accepted.
8. Place the Type P marker panel so that the bottom of the panel is at the bottom of the module.



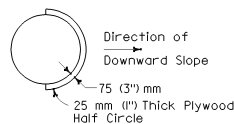
**ARRAY 'BI4'**  
Approach speed 100 km/h (62 mph) or less



**ARRAY 'BI1'**  
Approach speed 70 km/h (43 mph) or less

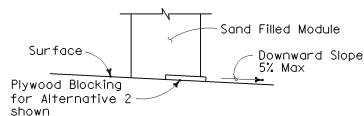


**ALTERNATIVE 1**



**ALTERNATIVE 2**

#### PLAN



**ELEVATION**

#### **BRIDGE DECK MODULE BLOCKING DETAILS**

(See Note 7)

#### STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION **CRASH CUSHION, SAND FILLED (BIDIRECTIONAL)**

These "Standard Plans for Construction of Local Streets and Roads" contain units in two systems of measurement: International System of Units (SI or "metric") and United States Standard Measures shown in the parentheses ( ). The measurements expressed in the two systems are not necessarily equal or interchangeable. See the "Foreword" at the beginning of this publication.

NO SCALE

**A81C**